BRAINBUSTERS

AN POST LITERACY AND NUMERACY CHALLENGE

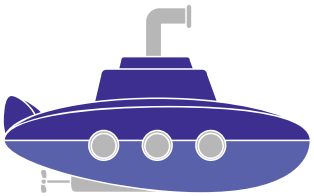
an post

POST PRIMARY PRACTICE CHALLENGES

ENGLISH

1. Choose a prompt below and, in your copybook, write 200 words with reference to the images.

Tip: Think fast! Can you write your story in under 6 minutes?



a. The submarine advanced through the black, murky waters. Suddenly, there was a ping of the sonar...

b. Somebody sent you a mysterious message on your phone. What did you hear when you listened?

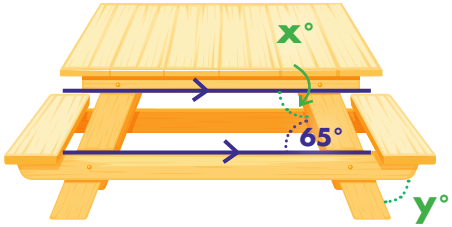
c. A woman runs past you, being chased by the police. What did she do?

MATHS

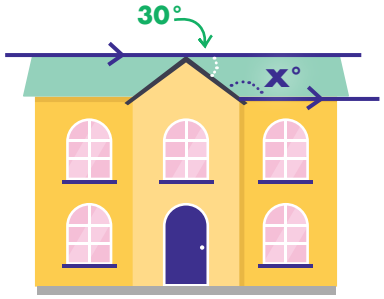
2. Answer the questions on angles below.

Tip: Parallel angles will be an important skill to remember!

a. Use the given angle to help you find the measure of angles x and y.

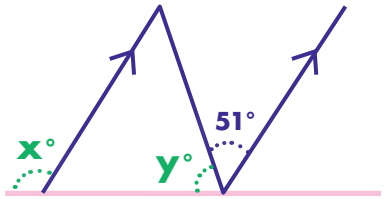


b. Use the angle given to help you find the measure of the angle x.



c. Use your protractor to measure the angle x.

Use that information to find the measure of the angle y.



3. Examine the document presented.

Tip: If you don't know a word, the way it is used in a sentence can give you a clue!

CONSTITUTION OF IRELAND

Enacted by the People 1st July, 1937

In operation as from 29th December, 1937

THE NATION

ARTICLE 1

The Irish nation hereby affirms its inalienable, indefeasible, and sovereign right to choose its own form of Government, to determine its relations with other nations, and to develop its life, political, economic and cultural, in accordance with its own genius and traditions.

ARTICLE 2

It is the entitlement and birthright of every person born in the island of Ireland, which includes its islands and seas, to be part of the Irish Nation. That is also the entitlement of all persons otherwise qualified in accordance with law to be citizens of Ireland. Furthermore, the Irish nation cherishes its special affinity with people of Irish ancestry living abroad who share its cultural identity and heritage.

ARTICLE 3

1 It is the firm will of the Irish nation, in harmony and friendship, to unite all the people who share the territory of the island of Ireland, in all the diversity of their identities and traditions, recognising that a united Ireland shall be brought about only by peaceful means with the consent of a majority of the people, democratically expressed, in both jurisdictions in the island. Until then, the laws enacted by the Parliament established by this Constitution shall have the like area and extent of application as the laws enacted by the Parliament that existed immediately before the coming into operation of this Constitution.

2 Institutions with executive powers and functions that are shared between those jurisdictions may be established by their respective responsible authorities for stated purposes and may exercise powers and functions in respect of all or any part of the island.

a. Explain the meaning of the following words:

Sovereign

Territory

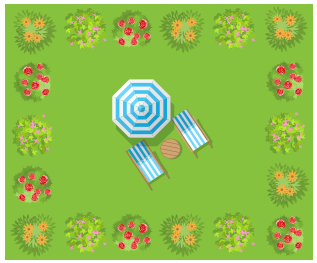
Democratically

b. Which Article states that "the Irish nation cherishes its special affinity with people of Irish ancestry living abroad who share its cultural identity and heritage"?

4. Answer the following questions on perimeters.

Tip: Perimeter is the distance around the outside of a shape. The lines around the edge of a soccer field show the perimeter of the field.

a. You are planting flowers along the edge of your garden as shown in the diagram below. Each plant must be planted 33cm apart along the top and bottom, and 28cm apart on the sides. What is the perimeter of your garden?



b. Andy has baked a rectangular cake as shown below. He would like to put a ribbon around the cake. What is the minimum length ribbon he would need?

He also has a packet of 7 edible flowers and would like to place them evenly around the outside of the cake. How far apart does he need to place the flowers?

c. Estimate the area of the triangle. Count any triangles which are more than half filled as a full square. Do not include any triangles which are less than half full.

2cm

2cm

5. Decipher the following codes.

Tip: This is a great skill for any Brain Busters competitor to master...

a. Complete these sums and decipher the message:

29cm + ____ = 1 metre

¼ of 288 =

19 x (72 / 8) =

(28 – 18) x 5 =

0.5 of 160 =

71	80	171	72	50
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b. Can you figure out the following equations? And then solve them?

😁	😍	😴	😜	🐠	🐿️	🍄	🌻	🧐	😉
1	2	3	4	5	6	7	8	9	0

i. (😁 🐿️ 🌻 – 🐠 🌻) x 😍 =

ii. 🌻 🧐 😉 / 🐠 =

iii. (🐠 + 😍) x 🌻 =

6. Solve the following problems.

Tip: Use rough paper if you need to.

A	B	C	D	E	F	G
✓✓✓ ✓✗	✓✓✓ ✗✓	✓✓✓ ✗✗	✓✓✗ ✓✓	✓✓✗ ✓✗	✓✓✗ ✗✓	✓✓✗ ✗✗
H	**I**	**J**	**K**	**L**	**M**	**N**
✓✗✓ ✓✓	✓✗✓ ✓✗	✓✗✓ ✗✓	✓✗✓ ✗✗	✓✗✗ ✓✓	✓✗✗ ✓✗	✓✗✗ ✗✓
O	**P**	**Q**	**R**	**S**	**T**	**U**
✓✗✗ ✗✗	✗✓✓ ✓✓	✗✓✓ ✓✗	✗✓✓ ✗✓	✗✓✓ ✗✗	✗✓✗ ✓✓	✗✓✗ ✓
V	**W**	**X**	**Y**	**Z**		
✗✓✗ ✗✓	✗✓✗ ✗✗	✗✗✓ ✓✓	✗✗✓ ✓✗	✗✗✓ ✗✓		

a. Using the Pattern above find the secret message.

✓✗✓✓✗ ✓✗✗✗✓ ✗✓✗✗✓ ✓✓✗✓✗ ✗✓✓✗✗
✗✓✗✓✓

....

b. A repeating pattern looks like this

i. What would the next colour be in this sequence?

ii. What would the 15th colour be in this pattern?

iii. What would be the 105th colour be in this pattern?

iv. Justify your answer.

c. Look at the following patterns and give the next 3 terms. Write down the rule for each pattern

2	4	8	16	32			

i. What is the rule?

7	10	13	16	19			

ii. What is the rule?

1000	200	40	8	1.6			

iii. What is the rule?

7. Fill in the timelines below to find out when the events in question occurred.

Tip: One person's whereabouts has been filled in for you.

a. Anna left for school at 8am and came home at 4pm to find a "Sorry we missed you!" leaflet from the postman in her letterbox. What time did the postman come by?

Anna's dad was home from 9am – 1pm. Her mum called home for lunch at 1pm and left at 2pm. Her brother Jamie came home from school at 2pm because he wasn't feeling well.

Time	Anna	Dad	Mum	Jamie
8:00am				
9:00am				
10:00am				
11:00am				
12:00pm				
1:00pm				
2:00pm				
3:00pm				
4:00pm	Home			

b. During the school day, our principal delivered a special surprise to our classroom. Nobody saw her bring it in, but Mary noticed it at 2:15pm.

My teacher rang the principal, but the secretary said she had been in a meeting since 12:45pm and had been at the Christmas concert 10 minutes early and didn't get back to the school until her meeting. She also had a parents' meeting at 9:30 for an hour.

We had had a busy day with lots of fun activities. We were in the classroom for a lot of the day except for lunchtimes and then we had our Morning Walk at 9:15am for 20 minutes, a concert at 11:15am until lunchtime. Two of the children didn't go for the walk and stayed in the classroom with one of the SNAs. We went to the concert 30 minutes before it began to get seats. During what time frame could she have delivered the surprise?

Time	Principal	Classroom
9:00	Free	
9:15	Free	
9:25	Free	
9:30	Busy	
10:00	Busy	
10:30	Free	
10:45	Free	
11:05	Busy	
12:45	Busy	
2:15	Busy	

8. Read both bank statements and answer the questions below.

Tip: Reading a bank statement is great skill to have - it's important that the final isn't the first time you see one!

a. Fill in the missing information on this bank statement.

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Cuntas Reatha An Post, BillPost, Teach Fiontair, Bóthar na Ceapaí, Cill Rois, Co. an Chláir, V15 VX23, Éire

An Post Current Account, BillPost, Enterprise House, Cappa Road, Kilrush, Co. Clare, V15 VX23, Ireland

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Your Current Account statement

Sandra — *January 2022*

Date	Code	Details	Money Out €	Money In €	Balance
		Balance brought forward			50.00
1 Jan	DD	Book	5.00		45.00
5 Jan	ATM	Cash withdrawal	10.00		
14 Jan	Cash	Lodgement		390	
30	DD	Parents	120		305

Account Summary	
Total paid in (€):	Total paid out (€):
Opening balance (€):	Closing balance (€):

Fill in the missing information on this bank statement.

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Your Current Account statement

John — *January 2022*

Date	Code	Details	Money Out €	Money In €	Balance
		Balance brought forward			200.00
12 Jan	ATM	Cash withdrawal	100.00		100.00
19 Jan	SO	Bills	45.00		
23 Jan	CR	Savings			255.00
26 Jan	CR	Salary		700.00	
26 Jan	ATM	Cash withdrawal	300.00		

Account Summary	
Total paid in (€):	Total paid out (€):
Opening balance (€):	Closing balance (€):

Continued on next page.

Fill in the missing information on this bank statement.

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Your Current Account statement

Mary — *January 2022*

Date	Code	Details	Money Out €	Money In €	Balance
		Balance brought forward			20.00
14 Jan	DC	School	10.00		10.00
27 Jan	CQ	No. 12769		400	
27 Jan	DR	Interest			330
28 Jan	CR	Savings			880
28 Jan	ATM	Cash withdrawal	300.00		

Account Summary	
Total paid in (€):	Total paid out (€):
Opening balance (€):	Closing balance (€):

b. Each of the account holders have to pay interest at 4.5% of their balance. Can you calculate their new balance after this has been deducted?

Sandra	John	Mary
Interest:	Interest:	Interest:
New Balance:	New Balance:	New Balance:

c. Answer the following questions by looking at the statements.

i. One of the account holders received a loan in December from one of the other account holders. They paid it back in January. Who do you think paid back the loan and why do you think that?

ii. One of the account holders is a student and they put the following into their piggy bank each month in 2021

Please fill in the table.

The student then lodged the money into their bank account.

Who out of the 3 account holders is the student? Justify your answer.

1	5	7	
2	2(5)	8	
3	3(5)	9	
4	4(5)	10	
5	5(5)	11	
6		12	

d. Liam got €50 for his birthday from his auntie. He put it into his Savings Jar in his bank account. Every week, he earns €10 for doing jobs around the house and lodges this money.

i. Complete the table below, showing the first 8 weeks of Liam's savings.

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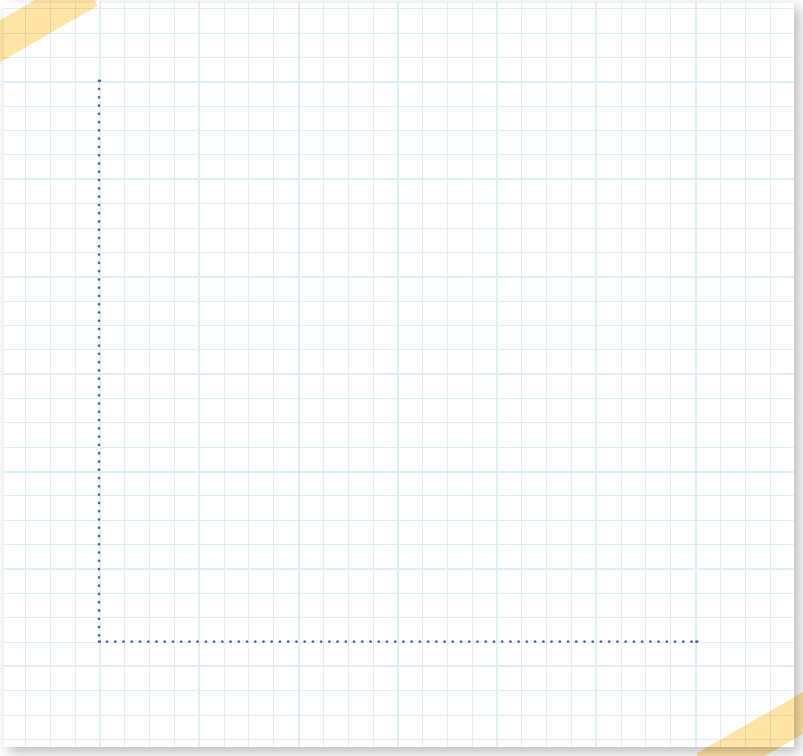
Savings Jar Statement

Liam — *January 2022*

Week	Details	Paid Out €	Paid In €	Balance
1	Birthday Gift		€50	€50
2	Chores		€10	€60
3	Chores		€10	€70
4	Chores		€10	€80
5	Chores		€10	€90
6				
7				
8				

ii. Show Liam's savings on a graph.



iii. When will Liam be able to afford to buy a new video game, which costs €165?

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